

OVECHKIN, Ye.K.; DROZIN, N.M.; KUTSYNA, M.I.; NOVIKOVA, Ye.F.

Solubility of gypsum in a distilled liquor from the soda production: Zhur.prikl.khim. 33 no.4:788-796 4p '60. (MIRA 13:9)  
(Gypsum) (Soda industry)

LE, B.; URMANCHEYEV, F.A.; BARANENKO, S.Ye.; NOVIKOVA, Ye.F.; BUKHARAYEVA, R.G.;  
LAMANOVA, I.A.; KURZHUNOVA, Z.Z.

Determination of the individual hydrocarbon composition of gas  
condensate fields of the Ukrainian SSR. Report No.1: Averaged gas-  
condensate of the Shebelinka field. Izv. AN SSSR Ser.khim. no.10:  
1809-1816 0 '63. (MIRA 17:3)

1. Institut organicheskoy khimii AN SSSR, Kazan' i Vsesoyuznyy  
nauchno-issledovatel'skiy institut gaza, Khar'kov.

NOVIKOVA, Ye. G.

NOVIKOVA, Ye. G. - "Investigation of the vegetative components of the orientation and conditioned reflexes in puppies during ontogenesis." Moscow, 1955. Acad Med Sci USSR. Inst of Normal and Pathological Physiology. (Dissertations for degree of Candidate of Medical Sciences.)

SO: Knizhnaya letopis', No 48. 26 November 1955. Moscow.

VOLOKHOV, A.A.; KOBYSH, V.I.; NOVIKOVA, E.G.

Method for recording respiration by means of a thermistor. Zhur.  
vys.nerv.deiat. 6 no.2:342-345 Mr-Apr '56. (MIRA 9:8)

1. Laboratoriya sravnitel'nogo ontogeneza nervnoy sistemy Instituta  
normal'noy i patologicheskoy fiziologii ANU SSSR.

(RESPIRATION, function tests

spirometry of laboratory animals during experimentation,  
appar. & method)

(LABORATORY ANIMALS

appar. & method for spirometry during experimentation)

NOVIKOVA, Ye.G.  
NOVIKOVA, Ye.G.

Studying the vegetative components of the orientation and conditioned defense reflexes in puppies in ontogenesis [with summary in English]. Zhur.vys.nerv.deiat. 7 no.1:103-113 Ja-F '57.

(MIRA 16:10)

1. Laboratoriya sravnitel'nogo ontogeneza nervnoy sistemy Instituta normal'noy i patologicheskoy fiziologii ANU SSSR.

(HEART, physiology,

in orientation & conditioned defense reflexes in puppies (Rus))

(RESPIRATION, physiology,

same)

(REFLEX,

orientation, cardiac & resp. reactions in puppies (Rus))

(REFLEX, CONDITIONED,

heart & resp. reactions to defense reactions in puppies (Rus))

VOLOKHOV, A.A.; NIKITINA, G.M.; NOVIKOVA, Ye.G.

Development of autonomic phases of orientation defense and conditioned reflexes during the ontogeny of a comparative series of animals. Zhur.vys.nerv.deiat. 9 no.3:420-428 Ky-Je '59. (MIRA 12:9)

1. Laboratory of Comparative Ontogenesis of the Nervous System, Institute of Normal and Pathological Physiology, U.S.S.R. Academy of Medical Sciences, Moscow.

(HEART - physiology)  
(RESPIRATION - physiology)  
(REFLEX, CONDITIONED)  
(REFLEX)

HOVIEDVA, Ye.G.

Some features of respiration and cardiac activity varying with age in puppies [with summary in English]. *Fiziol.zhur.* 45 no.2:142-150 P '59. (MIRA 12:3)

1. From the Laboratory of ontogenesis of the nervous system, Institute of Normal and Pathologic Physiology, Moscow.

(RESPIRATION, physiol

age factor in develop. in young dogs (Rus))

(HEART, physiol.

same)

(AGING, effects.

on heart & resp. funct. develop. in dogs (Rus)

SUROV, S.P.; NOVIKOVA, Ye.G.; GORYACHEVA, V.V.

Determining the concentration of hide glues by the refractometric method. Zav.lab. 26:111-112 '60. (MIRA 13:5)

1. Ural'skiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta abrazivov i shlifovaniya.  
(Glue)

КОВИРОВИЧ, Я. Е.

PHASE I BOOK EXCERPTION SOV/185

Индустрия наук СССР  
Строительная техника I спектроскопия (Structure of Matter and Spectroscopy) Moscow, Izdat. AN SSSR, 1960. 113 p. Kireva slip inserted. 2,300 copies printed.

Ed.: E. V. Satakhov, Professor; Tech. Ed.: E. P. Polonova.

PREFACE: This collection of articles is intended for physicists and chemists interested in spectroscopic methods of research on the structure of molecules and related problems.

CONTENTS: The articles contained in this collection were taken from the editorial files of the Zhurnal Fizicheskoi Khimii (Journal of Physical Chemistry) and are concerned with spectroscopic methods in research on the structure of molecules, the hydrogen bond, isotopic effects, problems of solubility, catalysis, the structure of aqueous solutions of electrolytes, the chemistry of complex compounds. References accompany individual articles.

The author thanks the following for having participated in determining the density of deuteriocompounds: V. G. Golov, P. E. Nikolayev, V. I. Kucheryavy, Ye. Z. Zhuravskiy, V. I. Murzin and L. S. Zhilkin. Ye. Zhenskaya is indebted for his discussion of the results.

МАНУ, А. Е. and М. Н. Аллахбаев. [Спектроскопический метод определения изменения в структуре полистирола в процессе фотохимической реакции]. 69

МАНУ, А. Е., М. Н. Аллахбаев, Я. Е. Кочубова, С. Д. Кочубова, and В. Н. Юсупов. [Спектроскопический метод определения изменения в структуре полистирола в процессе фотохимической реакции]. 73

МАНУ, А. Е., Я. Е. Кочубова, and В. Н. Юсупов. [Исследование спектров поглощения растворов соединений серебра в растворе]. 78

МАНУ, А. Е., Я. Е. Кочубова, and В. Н. Юсупов. [Исследование спектров поглощения растворов соединений серебра в растворе]. 80

МАНУ, А. Е., Я. Е. Кочубова, and В. Н. Юсупов. [Исследование спектров поглощения растворов соединений серебра в растворе]. 93

МАНУ, А. Е., Я. Е. Кочубова, and В. Н. Юсупов. [Исследование спектров поглощения растворов соединений серебра в растворе]. 96

МАНУ, А. Е., Я. Е. Кочубова, and В. Н. Юсупов. [Исследование спектров поглощения растворов соединений серебра в растворе]. 102

МАНУ, А. Е., Я. Е. Кочубова, and В. Н. Юсупов. [Исследование спектров поглощения растворов соединений серебра в растворе]. 109

МАНУ, А. Е., Я. Е. Кочубова, and В. Н. Юсупов. [Исследование спектров поглощения растворов соединений серебра в растворе]. 111

МАНУ, А. Е., Я. Е. Кочубова, and В. Н. Юсупов. [Исследование спектров поглощения растворов соединений серебра в растворе]. 111

17/4m/60  
10-30-60 /6

AVAILABLE: Library of Congress  
Card 6/6

KHIDEKEL', M.L.; RAZUVAYEV, G.A.; NOVIKOVA, Ye.I.; SMIRNOVA, L.A.;  
KHRUSHCH, A.P.

Interaction of 2,4,6-triphenyl-1-phenoxy with solvents.

Izv. AN SSSR. Ser. khim. no.8:1530-1532 Ag '64.

(MIRA 17:9)

1. Institut khimicheskoy fiziki AN SSSR i Gor'kovskiy  
gosudarstvennyy universitet im. N.I. Lobachevskogo.

DEM'YANOV, I.K.; TAZIYEV, Zh.Sh.; KOROLEV, A.S.; LEBEDEV, B.N., prof.,  
doktor; NOVIKOVA, Ye.I., assistant

Extraction of gold from rebellious carboniferous ore. Sbor. nauch.  
trud. Kaz GMI no.19:14-22 '60. (MIRA 15:3)  
(Gold ores) (Ore dressing)

KAGAZBAYEV, M.; ZHAZYLBEKOV, S.; NOVIKOVA, Ye.I.

Study of gold-bearing ores. Scov. nauch. trud. Kaz GMI no.19:  
164-166 '60. (MIRA 15:3)

(Gold ores) (Ore dressing)

NIGMATULLINA, G.A.; SATTAROVA, A.S.; ZHAKHANOV, Kh.; NOVIKOVA, Ye.I.

Study of a gold bearing concentrate for the purpose of extracting  
gold from it. Sbor. nauch. trudi Kaz GMI no.19:186-196 '60.  
(MIRA 15:3)

(Gold) (Ore dressing)

NOVIKOVA, Ye.I. (Moskva); FRENTS, G.S. (Moskva)

Studying reactions of zinc and copper sulfides with the products of their oxidation by physicochemical and chemical analyses.

Izv. AN. SSSR. Otd. tekhn. nauk. Met. i topl. no.3:31-36 My-Je '61.

(MIRA 14:7)

(Thermal analysis) (Sulfides—Metallurgy)

L 41406-65  
ACCESSION NR: AT5007818

Good agreement with values obtained by gravimetric analysis of steels containing Mn, Cr, Ni, Cu, Si, C, P, S, V, W and Mo. Orig. art. has: 1 figure and 3 tables.

ASSOCIATION: None

ENCL: 01

SUB CODE: IC, MM

SUBMITTED: 28Sep64

OTHER: 000

NO REF GOV: 001

Card 2/3

L 41435-65 EWT(m)/EPF(n)-2/EWP(t)/EWP(b) Pu-4 IJP(c) JD/JG/GS

S/0000/64/000/000/0069/0071

ACCESSION NR: AT5007816

AUTHOR: Tserkovnitskaya, I. A., Novikova, Ye. I.

TITLE: Amperometric determination of molybdenum in steels by titration with copper sulfate

SOURCE: Leningrad. Universitet. Metody kolichestvennogo opredeleniya elementov (Methods for the quantitative determination of elements). Leningrad, Izd-vo Leningr. univ., 1964, 69-71

TOPIC TACS: molybdenum determination, steel analysis, amperometric titration, copper sulfate, zinc amalgam

ABSTRACT: A method was developed for determining molybdenum in steel based on oxidation of Mo (III) to Mo (V) with  $CuSO_4$  solution (0.01 N) and amperometric indication of the end point. Molybdenum was reduced to Mo (III) with liquid zinc amalgam and relative errors in determining 0.5-2 mg Mo did not inter-

excess of Cu (II) appeared (see fig. 1 of the report)

Card 1/1

L 41406-65

ACCESSION NR: AT5007816

good agreement with values obtained by gravimetric analysis of steels containing Mn, Cr, Ni, Cu, Si, C, P, S, V, W and Mo. Orig. art. has: 1 figure and 3 tables.

ASSOCIATION: None

SUBMITTED: 28Sep64

ENCL: 01

SUB CODE: IC, MM

NO REF SOV: 001

OTHER: 000

Card 2/3

NOVIKOVA, YE. I., LEVI, M. I., VAL'KOV, B. G. and MINKOV, G. B.

"Experimental Flague in Different Populations of the Small Sualik."

Tenth Conference on Parasitological Problems and Diseases with Natural Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of Sciences, USSR, Moscow-Leningrad, 1959.

Elistinskaya Anti-Flague Station

LEVI, M.I.; VAL'KOV, B.G.; MINKOV, G.B.; NOVIKOVA, Ye.I.

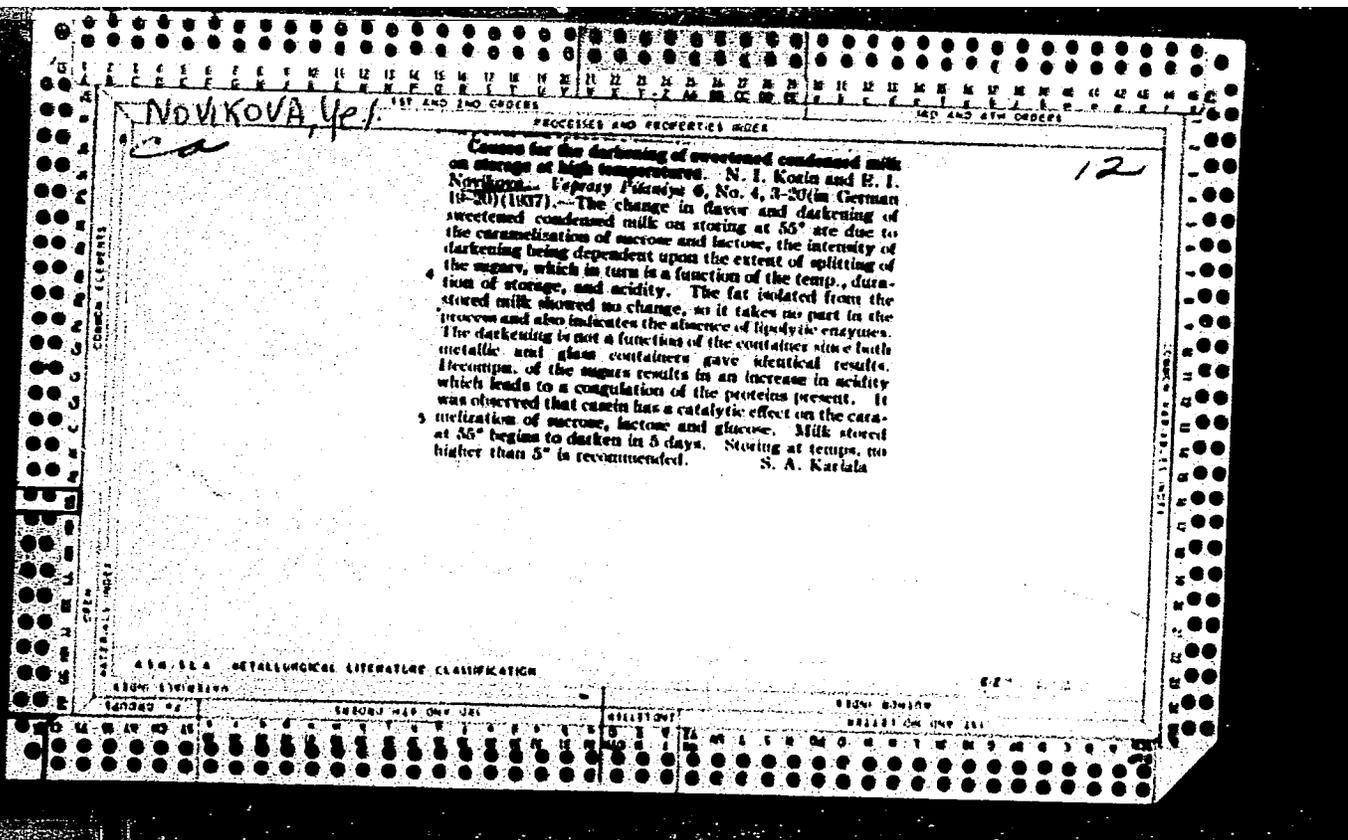
Experimental plague in different populations of the lesser  
suslik. Sbor. nauch. rab. Elist. protivochum. Sta. no. 1:65-83  
'59. (MIRA 13:10)

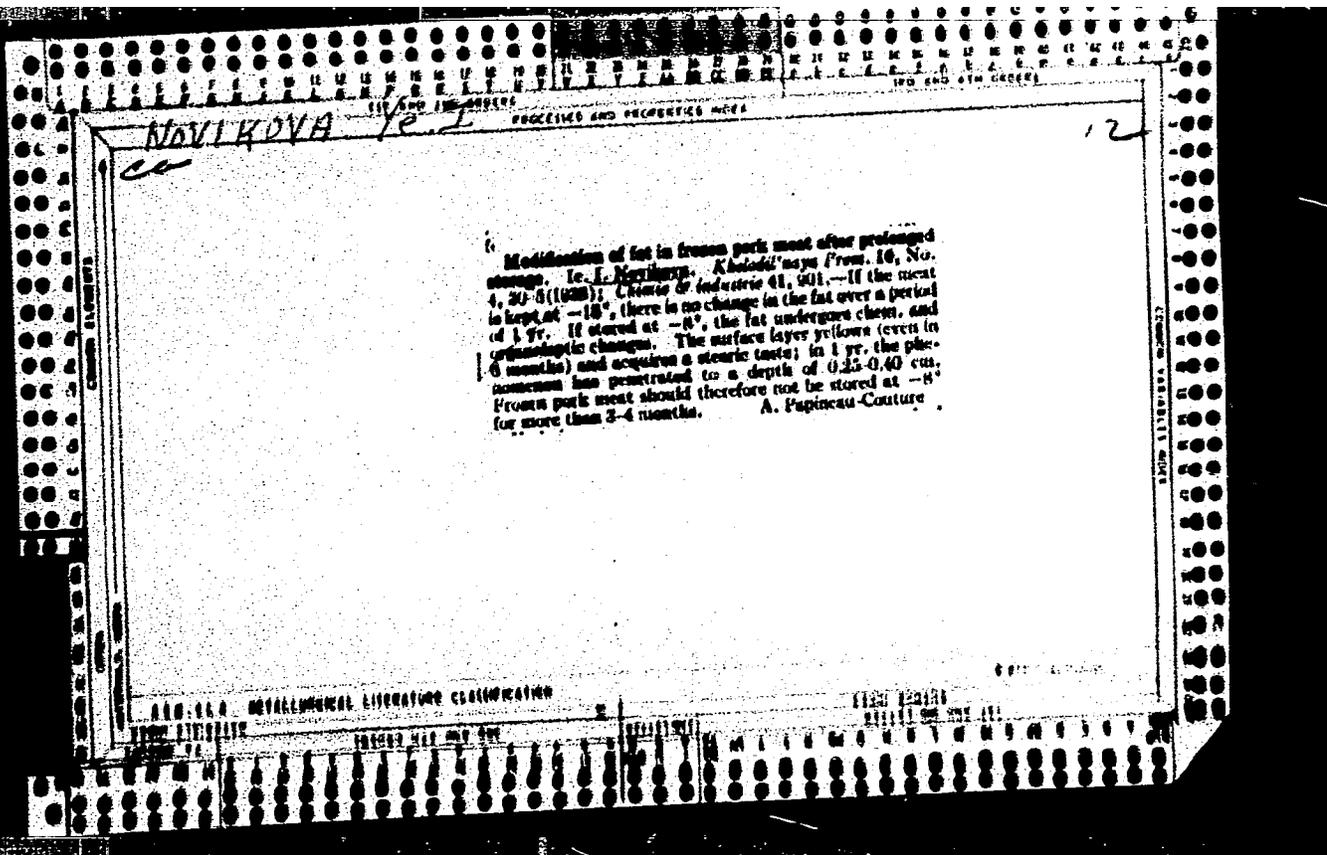
(SUSLIKS) (PLAGUE)

LEVI, M.I.; NOVIKOVA, Ye.I.; MINKOV, G.B.; OPTYAKOVA, A.F.; SHEL'MAN, A.I.;  
KANATOV, Yu.V.

Serological studies in plague. Report No.1: Detection of antibodies  
in sera of experimentally infected animals by means of the passive  
hemagglutination on reaction. Zhur.mikrobiol., epid. i immun. 32  
no.10:86691 0 '61. (MIRA 14:10)

1. Is Astrakhanskoy i Elistinskoy protivochumnykh stantsiy.  
(PLAGUE) (BLOOD-AGGLUTINATION)  
(ANTIGENS AND ANTIBODIES)





Novikova, E. I.

24972 Novikova, E.I. Opredeleniye Vitamina A V Usloviyakh Proisvodstvennogo  
Kontrolya. Ryb khoz-vo, 1949, No 8, s 46-48.

So: Letopis' No 33, 1949

NOVIKOVA, Ye.I.

Examination of some industrial fish and whales as to content of vitamins  
B<sub>1</sub> and B<sub>2</sub>. Rybnoye Khoz. 28, No.11, 57-60 '52. (MLRA 5:11)  
(CA 47 no.16:8320 '53)

NOVIKOVA ET

✓ The content of vitamin B<sub>1</sub> and B<sub>2</sub> in the internal organs of antarctic whales. E. I. Novikova. *Trudy Vsesoyuz. NIP*

*Nauch.-Issledovatel. Inst. Morsh. Rybnogo Khoz. i Okeanog.* 25, 103-5(1953); *Referat. Zhur. Khim., Biol. Khim.* 1953, No. 17101.—In the liver, kidneys, heart, and tongue of antarctic whales vitamins B<sub>1</sub> (I) and B<sub>2</sub> (II) were found. The liver of *Balaenoptera physalus* L. contains 3.7% of I and 10.7% of II; the liver of *B. musculus* L. 3.7% of I and 5.7% of II. The brain of the whale contains only I; no evidence of the presence of II was discerned. B. S. Levine



**PEREPLETCHIK, R.R.,** kand.tekhn.nauk; **NOVIKOVA, Ye.I.,** mladshiy nauchnyy  
sotrudnik.

Storage of frozen fish glazed with added antioxidants. Trudy VNIRO  
35:152-158 '58. (MIRA 11:11)

1. Laboratoriya novoy tekhnologii Vsesoyuznogo nauchno-issledovatel'-  
skogo instituta morskogo rybnogo khozyaystva i okeanografii.  
(Fish, Frozen) (Antioxidants)

PEREPLETCHIK, R.R., kand. tekhn. nauk; DAVIDOVA, Yu.S., kand. tekhn. nauk;  
NOVIKOVA, Ye.L., mladshiy nauchnyy sotrudnik

Polyunsaturated fatty acids constituents of cod-liver oil.  
Trudy VNIIRO 45:80-88 '62. (MIRA 16:5)  
(Cod-liver oil) (Acids, Fatty)

NOVIKOVA, YE. K.

USSR/Metals - Testing

Sep 50

"Apparatus for Determination of the Electrical Resistance of Alloys at High Temperatures,"  
R. M. Rozenblum, Ye. K. Novikova, Cen Sci Res Inst of Ferrous Metallurgy

"Zavod Lab" Vol XVI, No 9, pp 1135

Device consists of tube electric furnace and precision double Thomson bridge. Heating is conducted in atmosphere of neutral gas-Ar of N. A Pt vs Pt-Rh thermocouple is used. Apparatus satisfies all conditions required.

PA 169T62

GULYAYEV, A.P.; NOVIKOVA, Ye.K.

Determining a tendency for grain growth in structural steels.  
Zav. lab. 30 no.10:1229-1230 '64. (MIRA 18:4)

1. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii imeni Bardina.

S/129/63/000/002/006/014  
E193/E383

**AUTHORS:** Borok, B.A., Novikova, Ye.K., Golubeva, L.S.,  
Shchegoleva, R.P. and Ruch'yeva, N.A.

**TITLE:** Dilatometric studies of binary titanium-base alloys

**PERIODICAL:** Metallovedeniye i termicheskaya obrabotka metallov,  
no. 2, 1963, 32 - 36

**TEXT:** Dilatometric curves were constructed in the 20 - 900 °C range for the binary Ti-Fe, Ti-Cr, Ti-Co, Ti-Mo, Ti-V, Ti-Nb and Ti-Ta alloys containing 2-10% of the alloying elements, the constitution of these alloys was determined by metallographic and X-ray diffraction analysis, and the hardness of the alloys after various heat-treatments was measured. Experimental test pieces were prepared by powder metallurgy. No deflection points were observed on the dilatometric curves in the case of specimens annealed by heating to 800 or 900 °C with slow cooling; the slope of the curves was constant, indicating that the coefficients of thermal expansion of the alloys studied in the annealed condition were constant. The hardness of the annealed alloys was either equal to or higher than that of the specimens quenched from the  $\beta$ -range.  
Card 1/4

S/129/63/000/002/006/014  
E193/E383

## Dilatometric studies ....

the effect of the alloying-elements content (%) on the hardness (HRC) of the quenched alloys being shown in Fig. 1. The dilatometric curves of alloys with a sufficiently high content of elements stabilizing the  $\beta$ -phase (Fe, Cr, Co) had deflection points in the temperature range of the  $\omega$ -transformation. The alloy with the critical (4%) concentration of Fe had in the quenched condition a two-phase ( $\beta + \omega$ ) structure and high (RC 51.5) hardness. The dilatometric curve of this alloy showed no contraction associated with the formation of the  $\omega$ -phase and the expansion due to a reversible ( $\beta + \omega \rightleftharpoons \beta + \alpha$ ) transformation started at 420 and ceased at 490 °C. In the case of the quenched alloy with 6% Fe, consisting of the  $\beta$ - and partially precipitated  $\omega$ -phases (hardness 44.5), the  $\omega$ -phase was precipitated completely on heating, as a result of which the hardness of the alloy increased to RC 53; the dilatometric curve showed a contraction associated with the  $\beta \rightleftharpoons \omega$  transformation in the 170 - 400 °C range and an expansion in the 475 - 500 °C interval, where the ( $\beta + \omega \rightleftharpoons \beta + \alpha$ ) transformation took place. The hardness of quenched alloys with 8% Fe, consisting of the stabilized  $\beta$ -phase, increased on heating from 41.5 - 53. The small contraction and expansion on the dilatometric curve of

Card 2/4

Dilatometric studies ....

S/129/63/000/002/006/014  
E193/E583

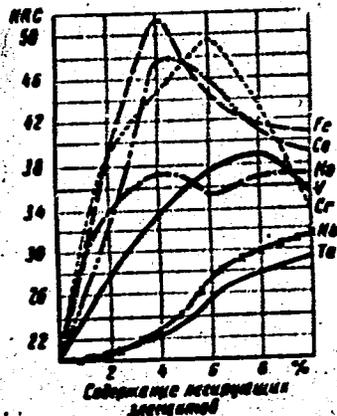
this alloy indicated only a partial precipitation of the  $\omega$ -phase. Similar effects were observed in the Ti-Cr alloys in which, however, the volumetric changes were less pronounced; the critical Co content was about 3.5% in the case of the Ti-Co alloys. X-ray diffraction analysis showed that quenched specimens of the 4% Co-Ti alloy had a two-phase structure ( $\beta$ - and partially precipitated  $\omega$ -phase); the precipitation of the  $\omega$ -phase in this alloy on heating (indicated by an increase in hardness from 48 - 50 RC) was, for some unknown reason, not reflected by deflection points on the dilatometric curve. In the case of the Ti-Mo alloys the volumetric effect was observed in the 10% Mo alloy only, indicating that the  $\omega$ -transformation did not take place in alloys containing 2 - 8% Mo. No deflection points were observed on dilatometric curves for the Ti-V, Ti-Nb and Ti-Ta alloys. This was attributed to the fact that the  $\omega$ -phase in these alloys could be formed only at a high concentration of the alloying elements (12 - 15% V, 23 - 30% Nb and 26 - 40% Ta). There are 3 figures and 1 table.

Card 3/4

Dilatometric studies ....

S/129/65/000/002/006/014  
E195/E383

Fig. 1:



Card 4/4

L 59270-55 EWP(s)/EWA(c)/EWT(m)/EWP(l)/EWP(b)/T/EWA(d)/EWP(e)/EWP(w)/EWP(t)  
LJP(c) MJW/JD/HW/JG  
ACCESSION NR: AT5016055

UR/2776/65/000/039/0016/0023

39  
35  
B+

AUTHOR: Gulyayev, A. P.; Novikova, Ye. K.

TITLE: Effect of rare earth metals and boron on the properties of high alloy structural steel

SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii. Bornik trudov, no. 39, 1965. Spetsial'nyye stali i splavy (Special steels and alloys), 16-23

TOPIC TAGS: alloy steel, metal mechanical property, impact resistance, metallographic examination, heat treatment

ABSTRACT: Three steels, 18KH1NVA, 15KHGNM, and 15KHGNCH were compared on the basis of mechanical properties, and especially impact strength at low temperatures. The steel with the highest Ni content (4.4%) compared to the other two (1.90%).

duced from impact tests at low temperatures, for the most part

Card 1/2

L 59270-65

ACCESSION NR: AT5016055

4

sizes for austenitizing temperatures ranging from 850-1200°C were determined by two separate techniques and were tabulated for all of the steels. No difference in characteristic mechanical properties or grain growth tendencies was observed between 18KhNVA and 15KhGNM steels. These same steels, at tempering temperatures of 200°C, have almost identical thresholds of cold brittleness, while after tempering at 550

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: MM

NO REF SOV: 002

OTHER: 000

Card <sup>126</sup> 2/2

IVANOV, A.G.; NOVIKOVA, Ya.K.

Determining the coefficients of heat conductivity of high-speed steels. Sbor. trud. TSNIICHM no.39.53-58 '65. (MIRA 18:7)

NOVIKOVA, ~~E.~~ M.; SOLOVEYCHIK, L. S.

"Polyvinylformal Analysis," Zavodskaya Laboratoriya (USSR) 15: 418-419, No. 4,  
1949 (-T-1801).

SO: B-32143, 10 May 51

BALANDINA, V.A.; NOVIKOVA, Ya.M.

Determination of combined butyric and acetic acids in cellulose  
acetobutyrate with a small butyric acid content. Plast. massy no.12:  
53-54 '60. (MIRA 13:12)

(Butyric acid)

(Acetic acid)

(Cellulose acetate)

NOVIKOVA, Ye.M.

Using radar for observing drift ice in the White Sea Strait.  
Okeanologia 3 no.4:730-739 '63. (MIRA 16:11)

1. Arkhangel'skaya gidrometeorologicheskaya observatoriya.

VALERIANOVA, M.A.; NOVIKOVA, Ye.M.

Variability of hydrologic conditions in the southern part  
of the Norwegian Sea. Trudy Len. gidromet. inst. no.17:  
3-10 '64. (MIRA 18:6)

STROYEV, A.S.; NOVIKOVA, Ye.N.

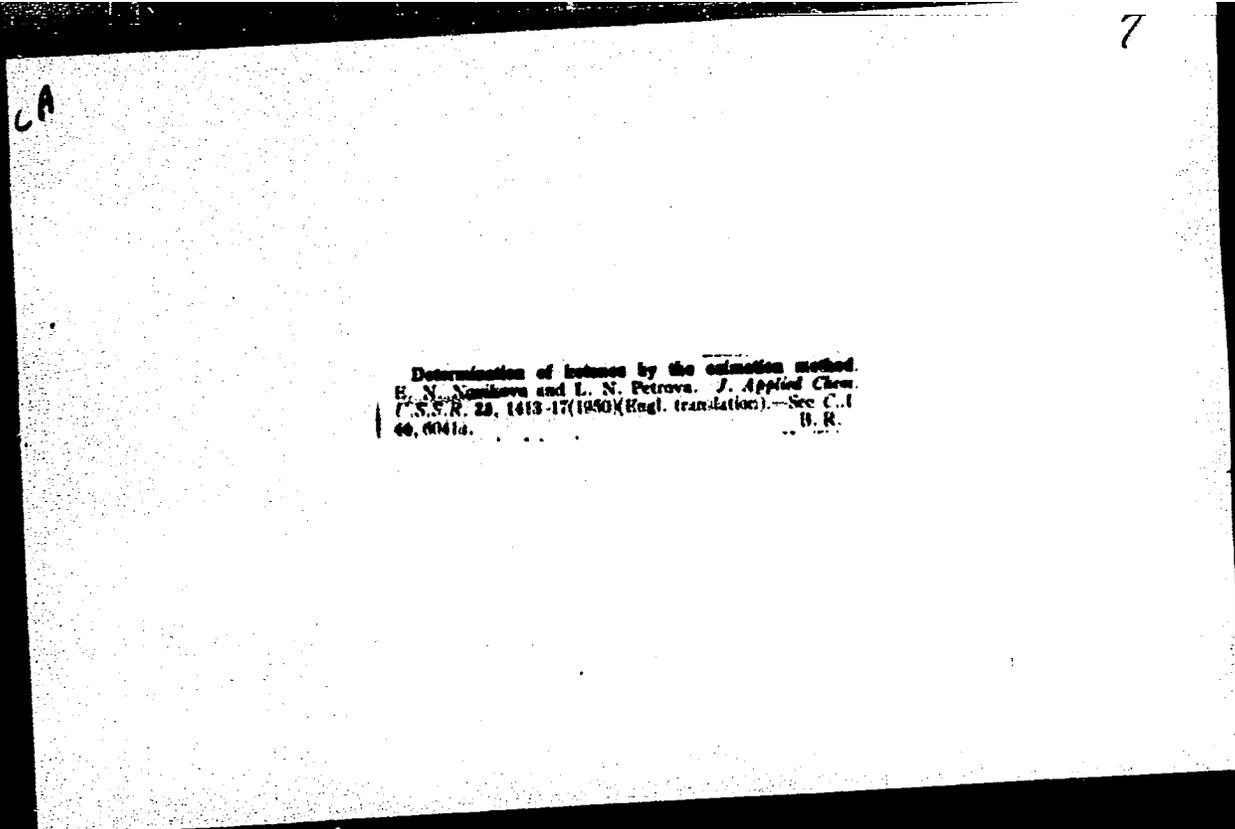
Increasing the surface hardness and the wear resistance of titanium alloys by means of high temperature diffusion saturation. Titanium alloy splavy no. 1:107-113 '58. (MIRA 14:5)

1. Ministerstvo aviatsionnoy promyshlennosti SSSR.  
(Titanium alloys--Hardening) (Case hardening)

NOVIKOVA, Ye.N.

Nitriding titanium alloys in pure nitrogen. Titan i ego splavy  
no.3:35-40 '60. (MIRA 13:7)  
(Titanium alloys) (Case hardening)





Determination of boranes by the oxidation method  
B. N. Noshova and L. N. Petrova. *J. Applied Chem.*  
*(U.S.S.R. 23, 1413-17(1950)(Engl. translation).—See C.I.*  
*44, 6041a. . . . . B. R.*

NOVIKOVA, Ye. N.

NOVIKOVA, Ye. N. -- "Quantitative Determination of Carbonyl Compounds by Means of Oxime Formation." Sub 21 Apr 52, All-Union Sci Res Inst of Synthetic and Natural Essential Oils. (Dissertation for the Degree of Candidate in Chemical Sciences).

SO: Vechernaya Moskva January-December 1952

NOVIKOVA, Ye. N.

3

C.A. V-48

Jan 10, 1954

Pharmaceuticals  
Cosmetics & Perfumes

Determination of the composition (aromatic principle) content of perfumes and eau de Cologne. L. N. Petrova, E. N. Novikova, E. A. Simanovskaya, and A. P. Levitkova. *Maikobolno-Zhivotnyy Prom.* 18, No. 7, 25-7 (1953).—Two methods are described. One is based on the extrn. of the aromatic principle with  $CHCl_3$  and the removal of the solvent as an azeotropic mixt. with MeOH. This method can be used for the analysis of all perfume-contg. liquids. In the 2nd method the EtOH and  $H_2O$  are removed directly as an azeotropic mixt. with  $C_6H_6$ . It can be used only for the analysis of liquids contg. less than 10% of  $H_2O$ .  
Vladimir N. Krubovskiy

All-Union Sci Res. Inst. Synthetic & Natural  
Essential Oil Products.

NOVIKOVA, YE. V.

PETROVA, L.N.; NOVIKOVA, Ye.N.; LEVDIKOVA, A.P.

Quantitative determination of linalool. Trudy VNIISNDV no.2:71-74  
'54. (MLBA 10:7)

(Linalool)

NOVIKOVA, Ye.N.; LEVDEKOVA, A.P.

Determining eugenol in distillation waters. Trudy VNIISHDV  
no.2:151-152 '54. (MIRA 10:7)

(Eugenol)

NOVIKOVA, YE. N.

AID P - 2271

Subject : USSR/Chemistry

Card 1/1 Pub. 152 - 16/19

Authors : Petrova, L. N. and Ye. N. Novikova

Title : Polarographic determination of aldehydes as  
2,4-dinitrophenylhydrazones

Periodical: Zhur. prikl. khim., 28, no.2, 219-221, 1955

Abstract : Description of a method based on the conversion of  
aldehydes to 2,4-dinitrophenylhydrazones is given.  
One table, one diagram, 2 references (1 Russian: 1948).

Institution: All-Union Scientific Research Institute of Synthetic  
and Natural Odorous Substances

Submitted : S 15, 1953

PETROVA, L.N.; NOVIKOVA, Ye.N.

Quantitative determination of ketones by means of oximation. Zhur.  
prikl.khim. 29 no.5:783-788 My '56. (MLRA 9:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh  
i natural'nykh dushistykh veshchestv.  
(Ketones) (Oximes)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001237510017-4

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001237510017-4"

NOVIKOVA, E. N.

Determination of alcohols by the dehydration method,  
 L. N. Putruga and E. N. Novikova (All-Union Sci. Research  
 Inst. Synthetic and Natural Resistant Oils, Moscow).  
 ZHURN. KHIM. A.S.S.R. 12, 411-14 (1957). -- The method is based  
 on dehydration of alc. by using toluenesulfonic acid as cataly-  
 st and titrating the liberated H<sub>2</sub>O with the Fisher reagent.  
 A sample is dissolved in toluene and an aliquot of the soln. is  
 refluxed for 5 min. in the presence of the catalyst. After  
 cooling, the liberated H<sub>2</sub>O is titrated with the Fisher rea-  
 gent. A control detn. is run on the solvent and reagent.  
 On a separate sample, the moisture content of the alc. is  
 detd. This method is suitable for tertiary alcs. as well as  
 readily dehydrating primary and secondary alcs. M. Hosh.

6  
4E3d  
4E4f

// 173

NOVIKOVA, Ye. N.

Determination of acetic anhydride. E. N. Novikova and  
I. M. Pataeva (All-Union Inst. Synthesis and Control Ex-  
perimental Chem. Moscow). *Zh. Anal. Khim.* 12, 844-8 (1957).  
The method consists of hydrolyzing  $Ac_2O$  in a known vol.  
of  $H_2O$  and titrating the excess  $H_2O$  with Fischer (cf. *C.A.B.*  
29: 6532) reagent. The hydrolysis is catalyzed either with a  
base (pyridine) or an acid ( $H_2SO_4$ ). M. Rosen

4  
1-453d  
1-484

11  
112

PETROVA, L.N.; NOVIKOVA, Ye.N.

Quantitative determination of ketones by the oximation method.  
Trudy VNIISNDV no.4:76-78 '58. (MIRA 12:5)  
(Ketones) (Oximes)

PETROVA, L.N.; NOVIKOVA, Ye.N.

Determination of aldehydes by the oximation method. Trudy  
VNIISNDV no.4:78-82 '58. (MIRA 12:5)  
(Aldehydes) (Oximes)

BUGORKOVA, A.A.; PETROVA, A.N.; NOVIKOVA, Ye.N.

Detection of chlorine traces in benzyl and phenylethyl  
alcohols. Trudy VNIISMDV no.4:154-156 '58. (MIRA 12:5)  
(Chlorine--Analysis) (Alcohols)

PETROVA, L.N.; NOVIKOVA, Ye.N.

Polarographic methods of analysis for controlling the processing of coriander oil. Trudy VNIISNDV no.4:189-194 '58.  
(MIRA 12:5)

(Citral) (Polarography) (Essences and essential oils)

MOLDOVANSKAYA, G.I.; MOVIKOVA, Ye.M.; SKVORTSOVA, N.I.; ZOBOV, Ye.M.

Utilization of the polarographic method for the analysis of  
orris oil. Trudy VNIISNDV no.4:194-197 '58. (MIRA 12:5)  
(Essences and essential oils—Analysis)  
(Polarography)

NOVIKOVA, Ye.N.; PETROVA, L.N.

Determining alcohol and water content in perfume and cosmetic liquids and in food essences. Masl.-zhir.prom. 24 no.11:20-22 '58. (MIRA 12:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv.  
(Essences and essential oils--Analysis) (Ethyl alcohol)  
(Water)

5(3) SOV/75-14-3-16/29  
AUTHORS: Petrova, L. N., Novikova, Ye. N., Skvortsova, A. B.  
TITLE: Determination of Carbonyl Compounds by the Reaction With Amines (Opredeleniye karbonil'nykh soyedineniy reaktsiyey s aminami)  
PERIODICAL: Zhurnal analiticheskoy khimii, 1959, Vol 14, Nr 3, pp 347-351 (USSR)  
ABSTRACT: The determination of aldehydes was carried out by addition of a solution of o-toluidine or aniline in benzene and titration of the water formed in consequence of the reaction with the reagent of K. Fischer (Ref 7). In aromatic aldehydes which react quickly and quantitatively with o-toluidine the titration can be performed directly in the reaction solution. Some aliphatic aldehydes react but slowly with amines. In this case the water formed is distilled-off with benzene and determined in the distillate with the reagent of K. Fischer. This reagent is also used for the titration of water which may have been present in the aldehyde already before. There are 5 tables and 8 references, 3 of which are Soviet.  
Card 1/2

SOV/75-14-3-16/29

Determination of Carbonyl Compounds by the Reaction With Amines

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh  
i natural'nykh dushistykh veshchestv, Moskva  
(All-Union Scientific Research Institute of Natural and  
Synthetic Perfumes, Moscow)

SUBMITTED: January 11, 1958

Card 2/2

PETROVA, L.N., kand.khim.nauk; NOVIKOVA, Ye.N.

New methods for determining the alcohol content in the  
essential oils of geranium, rose, and citronella. Masl.-zhir.  
prom. 25 no.8:21-23 '59. (MIRA 12:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteti-  
cheskikh i natural'nykh dushistykh veshchestv.  
(Essences and essential oils)  
(Alcohols)

NOVIKOVA, Ye.N.; DERGACHEVA, L.A.

Determination of ethyl alcohol in absolute attar of roses.  
Trudy VNIISNDV no.5:81-82 '61. (MIRA 14:10)  
(Ethyl alcohol) (Attar of roses)

NOVIKOVA, Ye.N.

Polarographic determination of zinc in powder. Trudy VNIISNDV  
no.5:83-84 '61. (MIRA 14:10)  
(Polarography) (Zinc--Analysis)

NOVIKOVA, Ye.N., kand.khim.nauk; PETROVA, L.N., kand.khim.nauk; SHARAFOVA,  
R.I.

Controlling the content of perfume compounds and liquids. Masl.-  
zhir. prom. 27 no.9:29-30 S '61. (MIRA 14:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh  
i natural'nykh dushistykh veshchestv.  
(Perfumes)

SKVORTSOVA, A.B.; PETROVA, L.N.; NOVIKOVA, Ye.N.

Quantitative determination of aldehydes in the presence of  
acetals. Zhur.anal.khim. 17 no.7:896-897 O '62. (MIRA 15:12)

1. All-Union Scientific-Research Institute of Synthetic and  
Natural Perfumes, Moscow.  
(Aldehydes) (Acetals)

NOVIKOVA, Ye.N.; SKVORTSOVA, A.B.

Control of the synthesis of ionone preparations and the estimation  
of their quality. Trudy VNIISNDV no.6:98-103 '63. (MIRA 17:4)

KHEYFITS, L.A.; SHULOV, L.M.; MOLDAVANSKAYA, G.I.; SKVORTSOVA, A.B.;  
NOVIKOVA, Ye.N.

Oximation of terpenocyclhexanones. Trudy VNIISNDV no.6:112-116  
'63. (MIRA 17:4)

PETROVA, L.N.; SKVORTSOVA, A.B.; NOVIKOVA, Ye.N.

Determination of aldehydes in the presence of ketones. Zhur.  
anal. khim. 18 no.1:131-136 Ja '63. (MIRA 16:4)

1. All-Union Scientific-Research Institute of Synthetic and  
Natural Perfumes, Moscow.  
(Aldehydes) (Ketones) (Aniline)

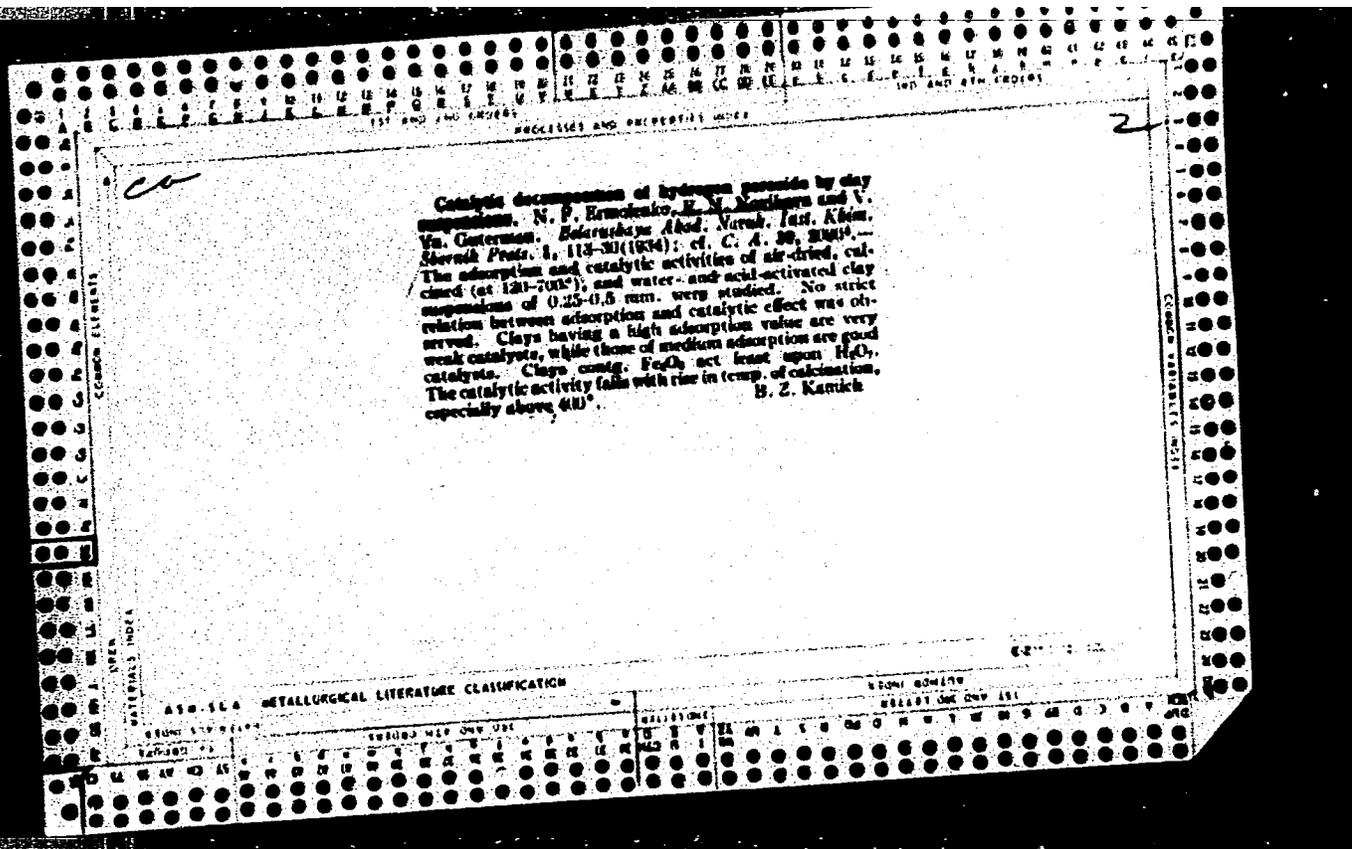
CHISTYAKOV, Vladimir Mikhaylovich; ~~NOVIKOVA, Ya N.~~ kand. khim.  
nauk, dots., nauchn. red.; NIKITINA, M., red.

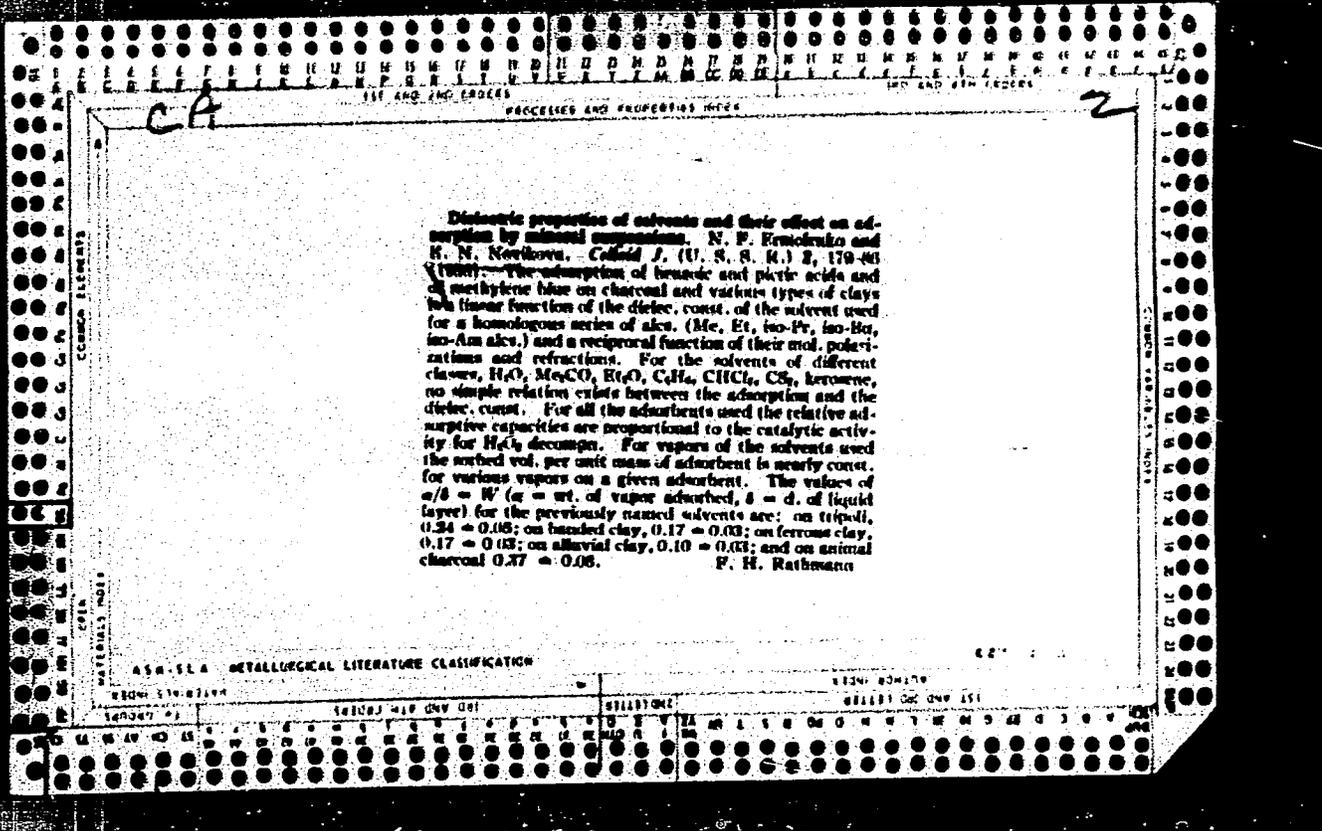
[Inhibitors of metal corrosion] Zamedliteli korrozii metallov;  
ingibitory. Minsk, Nauka i tekhnika, 1965. 60 p.  
(MIRA 19:1)

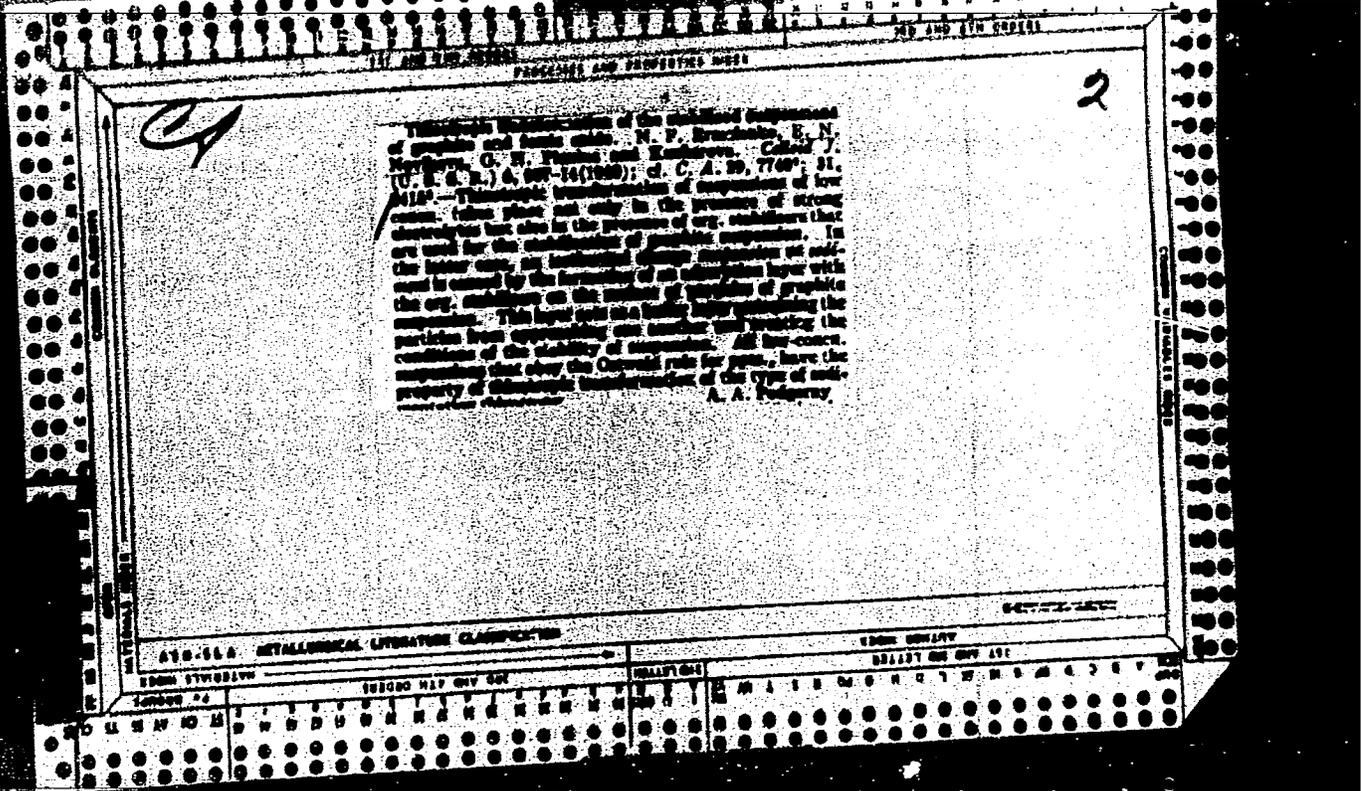
NOVIKOVA, Ye.N.; GUREVICH, S.I.; NIKITINA, I.M.

Using the nitrided VT14 alloy for gear wheels. Metalloved. 1  
term.cbr.net. no.10:19-22 0 '65.

(MIRA 18:11)







CA

26

**Fluorinating ability of alfalfa oils.** N. P. Urusovskii and  
K. N. Novikova. *Izv. Akad. Nauk SSSR, S.S.R.*  
1968, No. 3, 81-7. — The seed of narrow-leaf alfalfa, *Lupinus*  
*angustifolius*, contains 3.14% oil, by expt. with aviation gaso-  
line. The product has  $d_{20}^{20}$  0.918-0.923,  $n_D^{20}$  1.4748-1.4751,  
acid no. 32.8 (if expt. with Et<sub>2</sub>O), 117 (if expt. with gaso-  
line); I no. 102-112. The oil belongs to the weakly drying  
class and may be used for prepn. of glycols. G. M. K.

NOVIKOVA, Ye. N.

Yermolenko, N.F. and NOVIKOVA, Ye. N. "The colloidal chemical properties of koksagyz rubber with respect to the structure and the methods of cultivating the rubber plant", Izvestiya akad. nauk BSSR, 1948 No. 6, 95-109

SO: U-3261, 10 April 53, (Letopis 'Zhurnal 'nykh Statey, No. 11 1949)

NOVIKOVA, Ye. N.

Yermolenko, N. F. and Novikova, Ye. N. "Deemulsification of oil in the Buguruslan deposit", Uchen. zapiski (Belorus. gos. un-t), Issue 9, 1948, p. 37-58.

So: U-3261, 10 April 53, (Letopis 'Zhurnal 'nykh Statey, No. 12, 1949).

NOVIKOVA, Ye.N.

USSR .

2989. Inhibiting action of antioxidants of the phenol type against ageing of natural (kek-saghyz) rubber. N. E. ERMOLENTS and Ye. N. NOVIKOVA. *Vestn. Akad. Nauk Belarus. S.S.R.*, 1952, No. 4, 98-108; *Chem. Abs.*, 1955, 49, 4318. Experiments on kek-saghyz rubber, purified by precipitation from solution, and dissolved in xylene, compared pyrocatechol, resorcinol, hydroquinone, pyrogallol, phenyl- $\beta$ -naphthylamine, 2,3-diamino diphenylamine,  $\beta$ -naphthol, phenol, mixed cresols, and mixed xylenols. Rubber films were studied also in relation to oxidation. In both cases phenyl- $\beta$ -naphthylamine was most effective in protection against oxidation, and pyrocatechol was second. 4232116

22

NOVIKOVA, Ye.N., kandydat khimichnykh nauk.

Catalytic action of iron salts during oxidation of rubber by  
atmospheric oxygen. Vestsi' AN BSSR no.5:124-132 8-0 '52.

(Rubber) (Iron salts) (Oxidation)

(MLRA 7:8)

No. 1, Koval, E. N.

16  
 2  
 10m  
 2 may

✓ 1968. Oxidation of rubber films in the presence of natural and synthetic antioxidants. E. N. Novikova and N. P. Kuznetsov. *Invent. Akad. Nauk Beloruss. S.S.R.*, 1958, No. 5, 125-24; *Chem. Abstr.*, 1958, 50, 14256. Natural rubber was extracted with boiling acetone for 2 days; the acetone extract was collected each 2 h. From this resin-free rubber were prepared 1% rubber solutions in benzene, 25-ml. samples of which were evaporated to form the rubber films. Before the evaporation the following antioxidants were added to the rubber

solutions: the acetone-extract, solid fraction of the acetone extract,  $\alpha$ -naphthylamine,  $\beta$ -naphthylamine, and pyrocatechol. By measuring the changes of the relative viscosities of the 1% rubber solutions,

1957, No. 2, 85-92.

**Effect of inhibitors on the oxidation of rubber solutions.**  
 E. N. Novikova, *Vestn. Akad. Nauk Belar. S.S.R.*  
 1957, No. 2, 85-92. The effect of the compn. and structure of amino compds. on the oxidation of natural rubber has been studied. A 0.8% rubber soln. (in xylene) was oxidized by dry O at 70°, in the presence of antioxidants, in darkness. Antioxidants were added in the amts. of 0.01 g./mol./100 g. of the pure hydrocarbon. When the antioxidant was insol. in xylene, it was dissolved in alc. or dioxane before its addn. to the rubber soln. The results were detd. by measuring the relative viscosity at 20° of the corresponding rubber solns. The following antioxidants were studied: benzidine (I), *p*-toluidine (II), bis(*p*-aminophenyl)methane, 2,4-diaminodiphenylamine, *N*-phenyl-2-naphthylamine (III), *p*-toluidine (IV), *p*-toluidine (V), *p*-anisidine (VI), 2-aminobenzoic acid, azobenzene (VII), *p*-aminoazobenzene (VIII), PhN:NNHPh (IX), 4-(dimethylamino)azobenzene-

2-carboxylic acid (X), 4-(dimethylamino)azobenzene (XI), triaminoazobenzene, diphenylthiocarbazono (XII), diphenylcarbazone, diphenylcarbazide, phenylsemicarbazide (XIII), 2-naphthol (XIV), 1-(phenylazo)-2-naphthol (XV), and 1-(*p*-phenylazo)phenylazo-2-naphthol (XVI). The diamines, azo compds., and phenols were added to the rubber soln. alone and in combination with 0.05% Fe palmitate. The oxidation time ranged from 3 to 6 hrs. The results indicate that the character and position of the substitution groups (NH<sub>2</sub>, MeN, Me, OMe, and CO<sub>2</sub>H) of an aromatic antioxidant affect the antioxidative properties of the amines. For example, the relative viscosity of the rubber soln. oxidized in the presence of II is much lower than that oxidized in the presence of I; the same relation exists between IV and VI (there is no difference in the antioxidative properties between IV and V). Azo compds. form the following series with their decreasing antioxidative properties: VIII > X > XI > VII. The highest antioxidative properties showed XIII and III (relative viscosity of the rubber solns. after 5 hrs. of the oxidation were 9.04 and 8.30, compared with 8.92 for the control). IX and XII possess no antioxidative properties; rather they accelerate the rubber oxidation. XIV is also a strong antioxidant. XV and XVI protect rubber against oxidation slightly less than XIV. The presence of Fe palmitate in the rubber solns. in all cases greatly decreased the protective effect of the antioxidants. B. Wierbicki

Novikova, E. N.

✓ Methods of preparation and properties of the bituminous emulsions from peat tar. N. F. Ermolenko, E. N. Novikova, and D. Z. Glazburg. *Vestni Akad. Nauk Belarus. S.S.R.*, 1954, No. 3, 116-22. -- Utilization of peat tar (I) (the main waste product of the gas-generating ovens operated in glass industrial plants of White Russia) as the road-building material, asphalt, is thoroughly discussed. I contain water 4.85, light oils (II) (the fraction distd. at 100-170°) 1.45, intermediary oil (III) (171-270°) 26.59, heavy oil (271-300°) 11.80, anthracene oil (301-363°) 34.21, phenols (IV) 13.1, naphthalene O, and coke 21.12%. For the production of the asphalt material the amts. of water, II, III, and IV were reduced to 0.5, 0.12, 10.14, and 2.42%, resp., by removing the fractions distd. at 100° and 255°. The chem. compn. and phys. properties of the asphalt material prepd. in this way from I resemble those of the raw material prepd. from coal tar. Application of alkalis, salts of org. acids, tannides, lecithin, cholesterol, rosin soaps, sulfate pulp-alkali mixts., casein, and sulfitized oils and fats for the prepn. of bituminous emulsions is described also. E. Wierbicki

(2)

NOVIKOVA, E.N.

METHODS OF PRODUCTION AND PROPERTIES OF BITUMINOUS EMULSIONS BASED

ON PEAT TAR. Brotskiy, N.P., Novikova, E.N., and Ginzburg, D.L. (Izv. Akad. Nauk Belorussk. SSR (Ser. Khim. Nauch. Issled. Bel. SSR, 1956, (3), 123-129; abstr. in Ref. Zh. Khim. (Ref. J. Chem., Moscow), 1956, (15), 18050). It is proposed to obtain aqueous bituminous emulsions for lead surfacing from

the hydrocarbons of peat gasification. Water-soluble substances of the phenol type have first to be removed. The fraction of peat tar used boils at over 250 to 260°C and contains up to 1% phenols. It may be oxidized by atmospheric air, which lowers its solubility in water. The bituminous emulsions are obtained by mixing bitumen with water (1:1) while heating, with the addition of 0.06 to 0.5% caustic soda and 2 to 3% of an emulsifier such as oleic acid, stearic acid, turpentine oil etc.

11A

NOVIKOVA, E. N.

USSR/Chemistry - Inhibitors

Card : 1/1

Authors : Novikova, E. N., and Ermolenko, N. F., Act. Memb. of Byelorus-Acad. of Sc.

Title : Connection between the structure of inhibitors and their protective effect during oxygen oxidation of dipentene.

Periodical : Dokl. AN SSSR, 97, Ed. 3, 467 - 470, July 21, 1954

Abstract : The protective effect of inhibitors during oxidation processes and their dependence upon the structural characteristics of their own molecules, which determine the mobility of H and O atoms in inhibitor molecules and their polarity, was analyzed. The possibility of shielding double-polymer bonds with solvate-binding polar inhibitor molecules, which may inhibit the oxidation reaction, is explained. The mechanism of inhibitor action, in the process of oxygen oxidation of rubber and other substances, was determined by the method of a polarographic titration of a regularly changing structure. Seven references: 6-USSR and 1-English. Graphs.

APPROVED FOR RELEASE: 08/23/2000 - CIA-RDP86-00513R001237510017-4

Institution : Acad. of Sc. Byelorus-SSR, Institute of Chemistry

Submitted : March 5, 1954

Nevikova, E.N.

1330 Swelling of vulcanized rubber in benzene  
in the presence of inhibitors. E. N. NEVIKOVA.  
Izv. Akad. Nauk. S.S.R., 1956, No. 6,  
63-69; *Chem. Abstr.*, 1956, 50, 11259. Compounds of  
mercaptobenzothiazole and sulphur, when extrac-  
ted with benzene, dried, and then swelled for 11  
days at 20°C in benzene solutions of the relatives

1 PM  
2 may

111

4-11-68 VE II

7  
 Inhibitory oxidation of Leucos. B. N. Nerykova,  
 Vestn Akad. Nauk Belorus. S.S.R., Ser. Khim. Nauk  
 1956, No. 2, 87-101 (Russian summary).--The inhibitory  
 activity of phenols and amines on the oxidation of 3-carene  
 (I) has been investigated. The exptl. data are presented as  
 the no. of ml. O absorbed/mole I/min, with the time of  
 oxidation at 90°. The data indicate the following decreas-  
 ing order of amine inhibition: *p*-hydroxyphenyl- $\beta$ -naphthyl-  
 amine (II), *p*-HO-C<sub>6</sub>H<sub>4</sub>-NHPh, 1-C<sub>6</sub>H<sub>4</sub>-NHPh, 2-C<sub>6</sub>H<sub>4</sub>-  
 NHPh, Ph<sub>2</sub>NH, 2-C<sub>6</sub>H<sub>5</sub>NH, (III)

2  
1  
Chow

NOVIKOVA, Ye.N.

Sorption of inhibitors from solutions. Sbor.nauch.rab.Inst.khim.  
AN BSSR no.5:223-232 '56. (MLRA 10:5)  
(Styrene) (Rubber, Synthetic) (Sorption)

NOVIKOVA, E. N.

15  
 continuation of the oxidation of vulcanizates during swelling  
 E. N. Novikova (Inst. Appl. Min. C), *Kolloid. Zhur.* 18,  
 227-232 (1956). Swelling of vulcanizates in dipentane often  
 was retarded by antioxidants. In 0.05M solns., pyrogallol  
 and 2-C<sub>6</sub>H<sub>4</sub>NHPh (I) were the best inhibitors for a syn-  
 thetic vulcanizate, followed by pyrocatechol (II), 2-C<sub>6</sub>H<sub>4</sub>-  
 NH<sub>2</sub> (III), o-MeC<sub>6</sub>H<sub>4</sub>NH<sub>2</sub>, and EtOH. For a vulcanizate  
 of smoked sheet rubber was: III > II > EtOH.

I. L. Blikerman

4E2C  
E May

97  
ant

NOVIKOVA, Ye.N.

Inhibited oxidation of  $\alpha$ -pinene. Zhur.ob.khim. 26 no.4:1097-1102  
Ap '56. (MLRA 9:8)

1. Institut khimii Akademii nauk Belorusskoy SSR.  
(Oxidation) (Pinene)

YERMOLENKO, N.F.; NOVIKOVA, Ye.M.

De-emulsification of natural hydrocarbons by selective wetting  
of hydrophilic bodies. Uch.zap. BGU no.29:189-196 '56.

(MIRA 11:11)

(Petroleum--Refining) (Dehydration (Chemistry))

NOVIKOVA, Ye.N.; YERMOLENKO, N.F.

Oxidation of rubber in films in the presence of inhibitors and  
initiators. Uch.zap. BGU no.29:197-209 '56. (MIRA 11:11)  
(Rubber) (Oxidation)

NOVIKOVA, Ye. N. and N. F. YERMOLENKO

"The Relationship of Sorption and Deterioration Prevention by Inhibitors  
in the Oxidation of Rubber" p. 133

Sbornik nauchnykh rabot, vyp. 6, (Collection of Scientific Works of the Institute  
of Chemistry, Belorussian SSR, Academy of Sciences, No. 6) Minsk, Izd-vo AN  
Belorusskoy SSR, 1958, 271 pp.

~~NOVIKOVA, Ye.~~

Sorption of the hydroperoxide of alpha-pinene by silica gel.  
Dokl.AN BSSR 2 no.10:416-418 N '58. (MIRA 12:8)

1. Predstavleno akademikom AN BSSR N.F.Yermolenko.  
(Pinene) (Silica)

AUTHOR: Novikova, Ye. N.

SOV/79-28-7-61/64

TITLE: ~~The Influence of the Substituents in the Molecules of the~~  
Inhibitors on Their Protective Properties in the Self-Oxidation  
of  $\alpha$ -Pinene (Vliyaniye zamestileley v molekulakh ingibitorov  
na ikh zashchitnyye svoystva pri avtookislenii  $\alpha$ -pinena)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol. 28, Nr 7,  
pp 1993 - 1997 (USSR)

ABSTRACT: The aim of the present paper was to investigate the selfoxidation process of  $\alpha$ -pinene in the presence of an initiator and of counter-oxidizing agents with respect to the different chemical nature and structure of their molecules. It is known (Ref 1) that  $\alpha$ -pinene as an unsaturated compound can be easily subjected to self-oxidation which is accelerated by oxides and by metal salts (Ref 3). The good oxidizability of  $\alpha$ -pinene is further connected with the fact that phenols contained in turpentine are separated from it in the purification process and in fractional distillation, on which occasion the  $\alpha$ -pinene loses its natural counteroxidizing agents. For this reason such agents

Card 1/3

The Influence of the Substituents in the Molecules of SOV/79-28-7-61/64  
the Inhibitors on Their Protective Properties in the Self-Oxidation of  $\alpha$ -Pinene

must be added to it which slow down its selfoxidation. It may be expected that the stabilization of  $\alpha$ -pinene with inhibitors, as in the case with crack-gasoline, is more useful from the economic point of view than its purification by repeated distillation. The hydroperoxides (Refs 4,5) occur as primary products of selfoxidation of the  $\alpha$ -pinene, which initiate its further oxidation process. The discontinuation of this chain reaction of self-oxidation can be realized by the reaction of the antioxidizing agents with the radicals of the hydrocarbon to be oxidized, or by oxygen (Ref 6). The disturbing effect of these agents depends on the chemical nature and structure of their molecules. Therefore it was of importance for the comparative estimation of the activity of the inhibitors and for the explanation of the mechanism of their effect to trace the enrichment of the peroxide compounds taking place in  $\alpha$ -pinene. There are 6 figures and 10 references, 7 of which are Soviet.

Card 2/3

The Influence of the Substituents in the Molecules of SOV/79-28-7-61/64  
the Inhibitors on Their Protective Properties in the Self-Oxidation of  $\alpha$ -Pinene

ASSOCIATION: Institut khimii Akademii nauk Belorusskoy SSR (Institute of  
Chemistry, AS Belorussian SSR)

SUBMITTED: May 6, 1958

1. Terpenes--Oxidation
2. Terpenes--Fractionation
3. Oxidation inhibitors--Molecular structure
4. Terpenes--Molecular structure
5. Phenols--Separation

Card 3/3

YERMOLENKO, N.F.; NOVIKOVA, Ye.N.

Structure and preventive action of oxidation inhibitors for rubber  
and other hydrocarbons. Uch.zap.BGU no.42:65-93 ' 58.

(MIRA 12:1)

(Antioxidants) (Hydrocarbons)

NOVIKOVA, Ye. N. [Novikava, E. N.]

Effect of inhibitors on the oxidation of rubber in  $\alpha$ -pinene.  
Vestsi AN BSSR. Ser. fiz.-tekh. nav. no. 1:41-46 '59.  
(MIRA 12:6)

(Rubber) (Pinene) (Oxidation)

NOVIKOVA, Ye.N. [Novikava, E.N.]

Effect of inhibitors on the photo-oxidation of rubber and  $\alpha$ -pinene.  
Vestsi AN BSSR. Ser. fiz.-tekh. nav. no.3:50-55 '59.

(MIRA 13:3)

(Oxidation) (Rubber) (Pinene)

NOVIKOVA, Ye.N.

Sorption of peroxide compounds by clays and oxides. Dokl.  
AN BSSR 3 no.10:405-407 0 '59. (MIRA 13:2)

1. Predstavleno akademikom AN BSSR N.F.Yermolenko.  
(Pinene) (Clay) (Sorption)